

SHABASHOVA, N. Ya., Cand Med Sci -- (diss) "Development of domestic (live.))

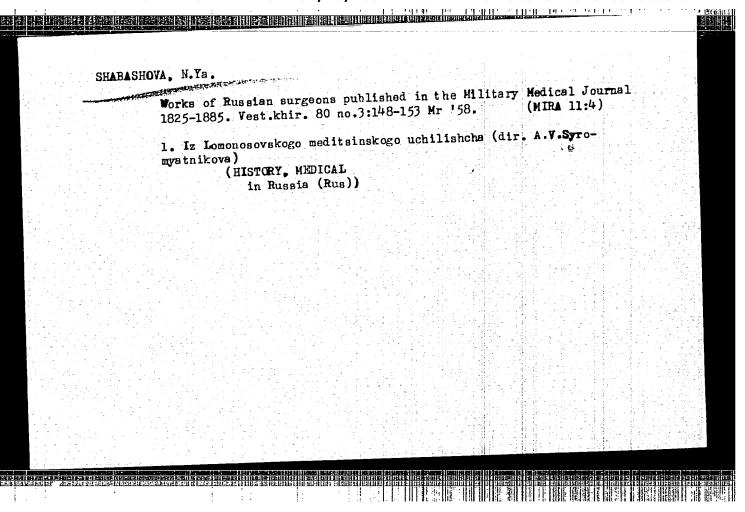
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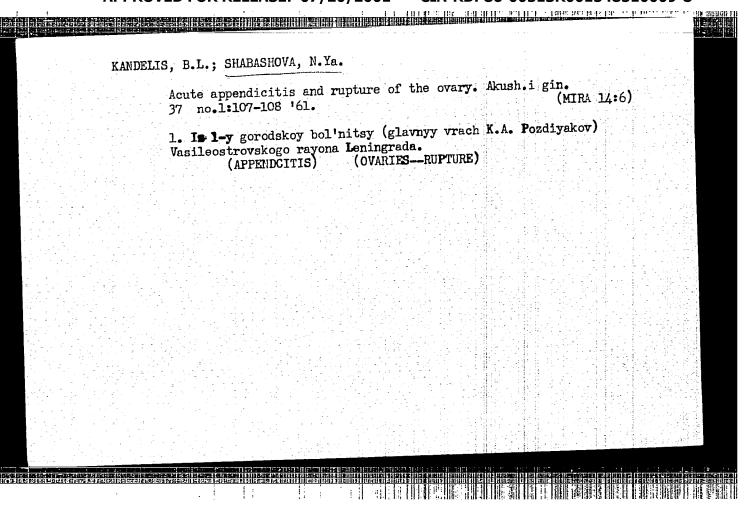
meditsinskiy zhurnal (1823-1885). " Len, 1958. 22 pp (Len State

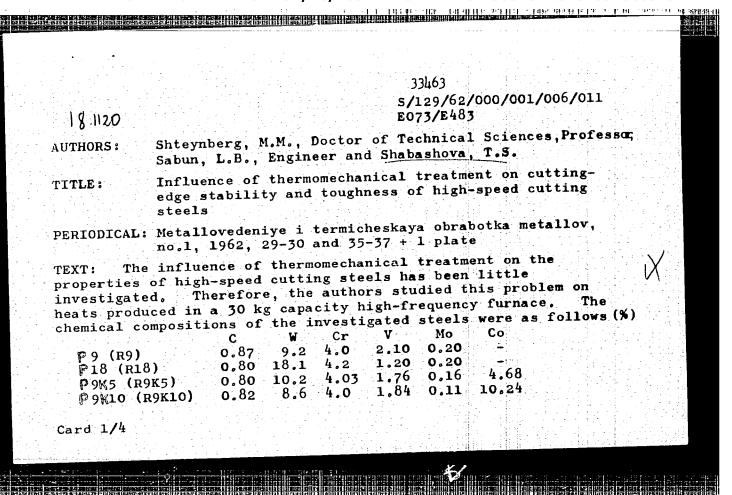
Order of Lenin Inst for Advanced Training of Physicians im S. M. Kirov.

Len Oblast Department of Health), 200 copies (KL, 17-58, 112)

-93-







33463 \$/129/62/000/001/006/011 E073/E483

Influence of thermomechanical ..

The ingots were forged into 15 x 15 mm rods, which were subjected to thermomechanical treatment. The austenizing temperature was 1270°C for steel R18 and 1250°C for other materials. Preliminary heating was in a salt bath at 860°C and the austenite was supercooled to the desired temperature in a saltpetre bath. Plastic deformation (5 to 30% reduction) was by forging in a test rig which ensured that the cross-section of the blank remained square. blank was hit along two adjacent sides and following that it was oil-quenched. The same heat-treatment was applied simultaneously to pilot specimens not subjected to plastic deformation. addition to investigating the cutting properties, hot hardness, toughness and structure, magnetometric investigations were carried out on the steel R9. It was found that thermomechanical treatment increased the service life of cutting edges of the steels R9 and R18 but had little effect on the performance of cutting edges of Co-containing high-speed steels. The effect of thermomechanical treatment was most pronounced in material deformed at 400°C. The actual increase in service life for a reduction of 15% was as follows: Card 2/4

	33ⴑ63
Influence of thermomechanical	
Deformation temperature, °C	Increase (or decrease) in service life, %
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170 228	
228) : : : : : : : : : : : : : : : : : : :
229	지 등목으로 보고 정 목으로 되는 가격 한 일반 등 년
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of a cutting edge and the degree steel during thermomechanical t deformation range studied the heade was obtained in the case of	£ 15% reduction. Thermomechanical

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S/129/62/000/001/006/011 Influence of thermomechanical ... E073/E483

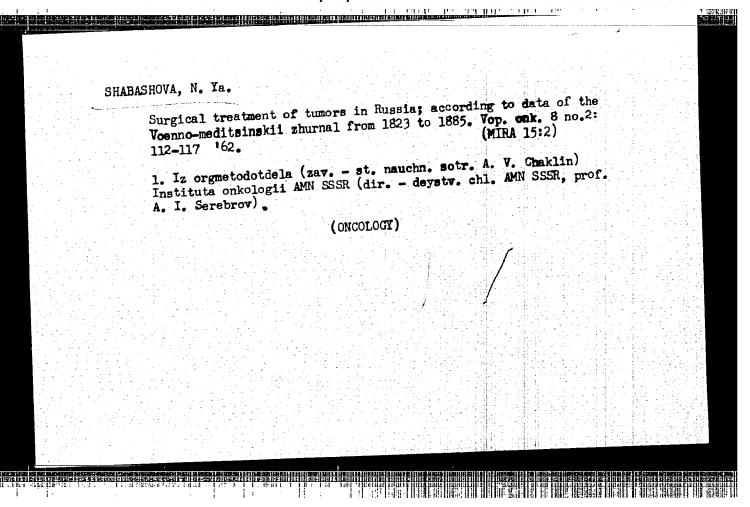
this increase was most pronounced when of the cutting edge; cutting materials of high hardness; practically no increase in service life was observed in machining austenitic steels. thermomechanical treatment improved appreciably toughness of steel in static bending; it also brought about refinement of the martensite grain and formation of a texture. Magnetometric tests have shown that on increasing the reduction from 5 to 20 - 30%, the martensitic point for the residual austenite during tempering is depressed 20 to 30°C below that for undeformed steel. thermomechanical treatment had little influence on the completeness of the transformation of the residual austenite during tempering. There are 5 figures, 4 tables and 9 references: 7 Soviet-bloc and 2 non-Soviet-bloc. The two references to English language publications read as follows: Ref.1: D.J.Schmatz, J.C.Shyne, V.F.Zackay. Metal Progress, v.76, no.3, 1959; Ref.8: R.F. Harvey. Steel, v.147, 1960.

ASSOCIATION: Ural'skiy politekhnicheskiy institut

(Ural Polytechnical Institute)

Uralmashzavod

Card 4/4



KHOLDIN, S.A., prof., otv. red.; RAKOV, A.I., prof., red.;

LAZAREV, N.V., zasl. deyatel nauki prof., red.;

TOBILEVICH. V.P.. prof.. red.; NECHAYEVA, I.D., doktor

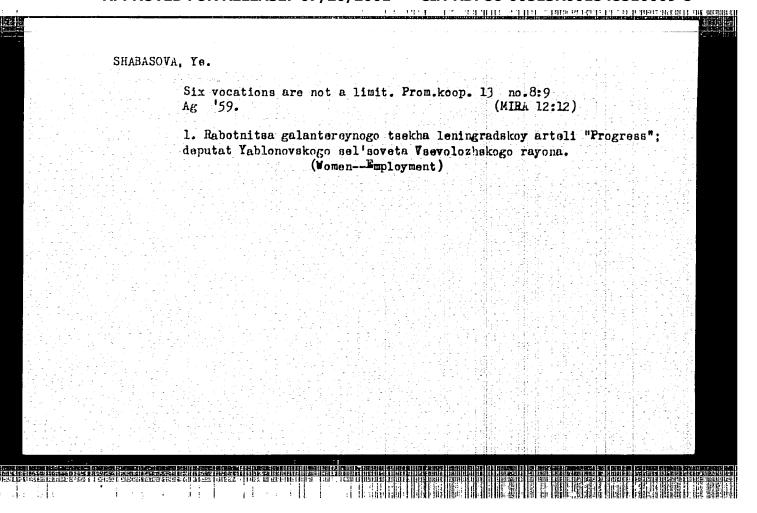
med. nauk red., KAUFMAN, B.D., kand. med. nauk, red.;

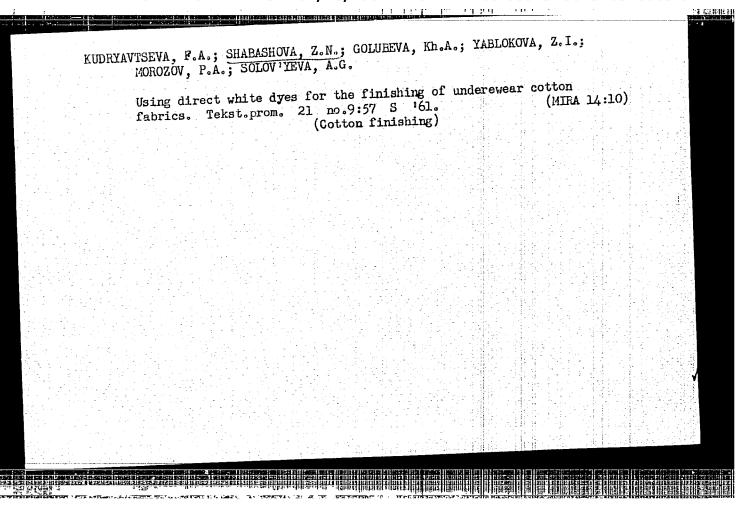
SHABASHOVA, N.Ya., kand. med. nauk, red.; PETROV, A.N.,

red.

[Current problems of oncology; festschrift for the 70th birthday and the 45th anniversary of the scientific and civic activity of Member of the Academy of Medical Sciences of the U.S.S.R. Professor Aleksandr Ivanovich Serebrov, and consisting of papers by his students and coworkers, as well as by distinguished scientists in the field of cancer control] Sovremennye problemy onkologii; sbornik posviashchen 70-letiiu so dnia rozhdeniia i 45-letiiu nauchnoi i obshchestvennoi deiatel nosti deistv. chl. AMN SSSR professora Aleksandra Ivanovich Serebrova i sostoit iz rabot ego uchenikov i sotrudnikov, a takzhe vidnykh uchenykh - soratnikov po protivorakovoi bor be. Leningrad, Meditsina, 1965. 245 p. (MIRA 18:6)

1. Akademiya meditsinskikh nauk SSSR, Moscow. Institut onkologii. 2. Chlen-korrespondent AMN SSSR (for Kholdin, Rakov).





16.3400

33535 S/042/62/017/001/005/005 B1::/B108

AUTHOR:

Shabat. A.

TITLE:

Boundary value problems with a small parameter for ordinary

linear differential equations

PERIODICAL:

Uspekhi matematicheskikh nauk, v. 17, no. 1 (103), 1962,

TEXT:

The author considers solutions $u^{\epsilon}(x)$ of the boundary value problem

A :

$$L_{\varepsilon}u^{\varepsilon}(x) = \sum_{j=1}^{l} \varepsilon^{j} a_{h+j}(x) \frac{d^{h+j}}{dx^{h+j}} u^{\varepsilon}(x) + \sum_{i=1}^{h} a_{i}(x) \frac{d^{i}}{dx^{i}} u^{\varepsilon}(x) = h(x).$$
 (1)

$$\frac{d^{i}}{dx^{i}}u^{e}(x)|_{a} = f_{i} \qquad (i = 0, 1, 2, \dots, k_{1} - 1, k_{1}, \dots, k_{1} + l_{1} - 1, k_{1} + k_{2} = k),$$

$$\frac{d^{i}}{dx^{j}}u^{e}(x)|_{b} = g_{j} \qquad (j = 0, 1, 2, \dots, k_{2} - 1, k_{2}, \dots, k_{2} + l_{2} - 1, l_{1} + l_{2} = l).$$

Card 1/3

33635 S/042/62/017/001/005/005 B112/B108

Boundary value problems with ...

The following theorem is presented: If there is an unambiguous solution $u^{0}(x)$ of the equation $L_{0}u^{0}(x) = \frac{k}{1-1}a_{1}(x)d^{1}u^{0}(x)/dx^{1} = h(x)$, which satisfies

the boundary conditions

$$d^{j}u^{0}(x)/dx^{j}|_{a} = f_{i} \qquad (i = 1, 2, ..., k_{1} - 1),$$

$$d^{j}u^{0}(x)/dx^{j}|_{b} = g_{j} \qquad (j = 1, 2, ..., k_{2} - 1; k_{1} + k_{2} = k)$$
(degenerate boundary value problem A.)

(degenerate boundary value problem A_0), and if the roots of the equation $a_{k+1}(x)$, $a_{k+1-1}(x)$ $a_{k+1-1}(x)$ $a_{k+1-1}(x)$ $a_{k+1-1}(x)$

fulfill certain conditions, then there is an unambiguous solution u(x) of the boundary value problem A, which tends to $u^0(x)$ for 0. M. I.

Vishik and L. A. Lyusternik (UMN 12, no. 5 (1957)) are referred to. There are 4 references: 1 Soviet and 3 non-Soviet. The two references to English-language publications read as follows: G. D. Birkhoff, On the asymptotic character in the solutions of certain linear differential equations, containing a parameter, Trans. Amer. Math. Soc. 2 (1908); H. L. Turritin,

Card 2/3

Boundary value problems with...

S/042/62/017/001/005/005
B112/B108

Asymptotic expansions of solutions of systems of ordinary linear differential equations containing a parameter, Contributions to the theory of non-linear oscillations, V, 11, Princeton, 1952.

SUBMITTED: September 25, 1958

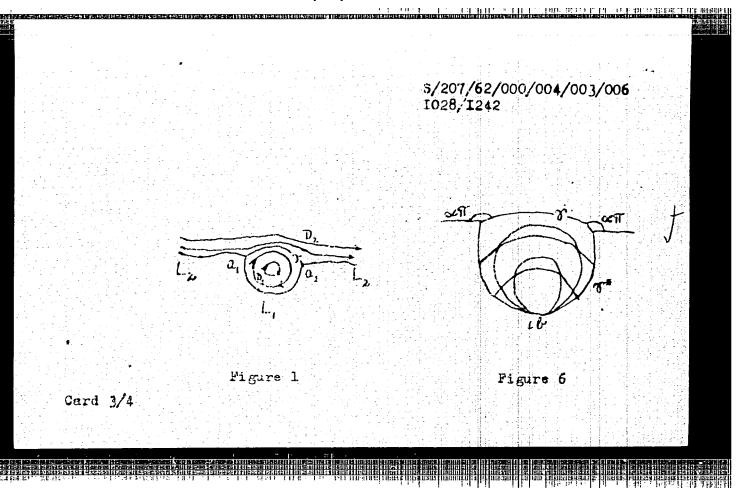
1150717 5/207/62/000/004/003/006 1028/1242 Shabat, A.B. (Novosibirsk) AUTHOR: A pattern of planar fluid flow in the presence TITLE: of bottom trenches Zhurnal prikladnoy mekhaniki i tekhnicheskoy PERIODICAL: fiziki, no.4, 1962, 68-80 TEXT: The flow in a region $D\{y>y(x)\}$ is considered, where y=y(x) is the equation of the line L, smooth everywhere except at two points al and a2, where the direction of the tangent has a discontinuity. An arc γ, connecting a₁ and a₂, is drawn inside D. This arc divides D into a finite region D₁, limited by r and L1 (L1 = the part of L connecting a1 and a2), and a Card 1/4

S/207/62/000/004/003/006 1028/1242

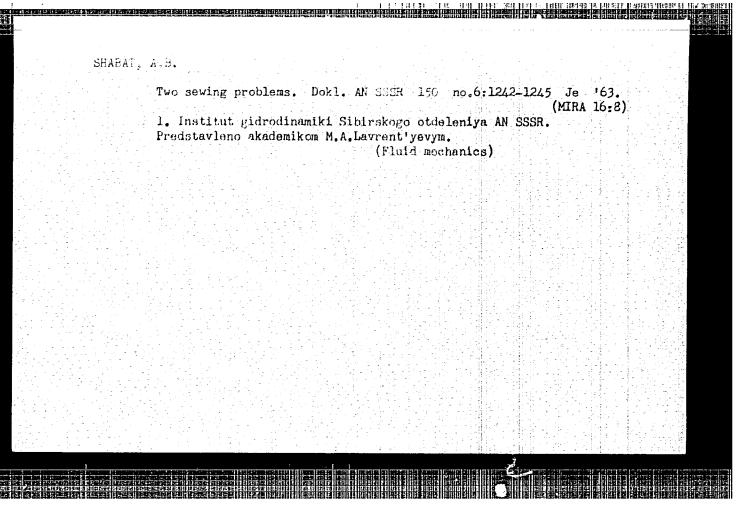
A pattern of planar fluid flow ...

region D₂. The distribution of pressure in the region D₁ for a given L is examined under the assumption that: a) the motion D₂ is vortex-free, while in D₁ is has a constant vortex ω, b) L and γ are stream lines, c) the velocities of both flows coincide along γ. It is established that the pressure in D₁ is less than in D₂, attaining a minimum either on the boundary of D₁ or on an internal stationary point b (where u = v = 0). It is shown that for every analytic arc forming with L₂ finite angles α, π and α, π (ο < α, < 1), there exists a.υ. > 0 such that for every ω > ω_c there exists a L₁(ω) satisfying the above assumptions. For the special case that L₂ (the part of L excluding L₁) is the real axis without the set ment (-1,+1), while γ is a circular arc forming the angleα, η = α, η = ω, there exists a

Card 2/4



 $s/207/62/999/004/00 \frac{1}{006}$ and that the field of velocities in D₁ has only one stationary point, located on the straight line x \approx 0. There are 7 figures. SUBMITTED: March 12, 1962



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AFFIC/ASD/SSD

69

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ACCESSION NR: AP3006119

s/0207/63/000/004/0003/0016

AUTHOR: Krasovskiy, Yu. P.; Lavrent'yev, M. A.; Moiseyev, N. N.; Ter-Krikorov, A. M.; Shabat, A. B. (Novosibirsk, Moscow)

TITLE: Mathematical problems of the hydrodynamics of a liquid with free boundaries

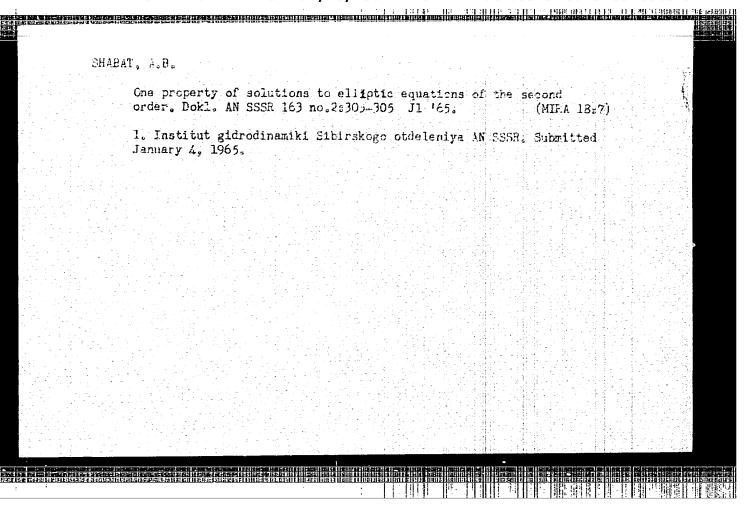
SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 4, 1963, 3-16

TOPIC TAGS: liquid-motion theory, free boundary, free-stream flow, discontinuous flow, wave phenomenon, standing wave, three-dimensional flow, Froude number, gravitational wave, Cauchy-Poisson wave

ABSTRACT: The article reviews Soviet publications of the last four years dealing with investigations in the theory of the motion of a liquid with free boundaries. Data available from the authors' survey reports presented at the IV Vsesoyuzny*y matematicheskiy s"yezd (4th All-Union Mathematical Congress) in Moscow in 1958 are used in this paper. New models of free-stream and discontinuous flows are presented and discussed. Approximate methods for investigating wave phenomena, based on the asymptotics of solutions, are reviewed, and exact solutions of problems related to the theory of gravitational waves are analyzed. Attention

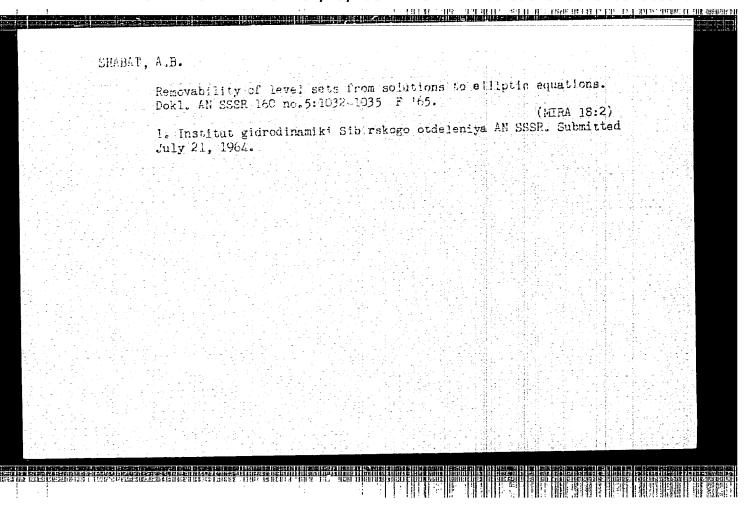
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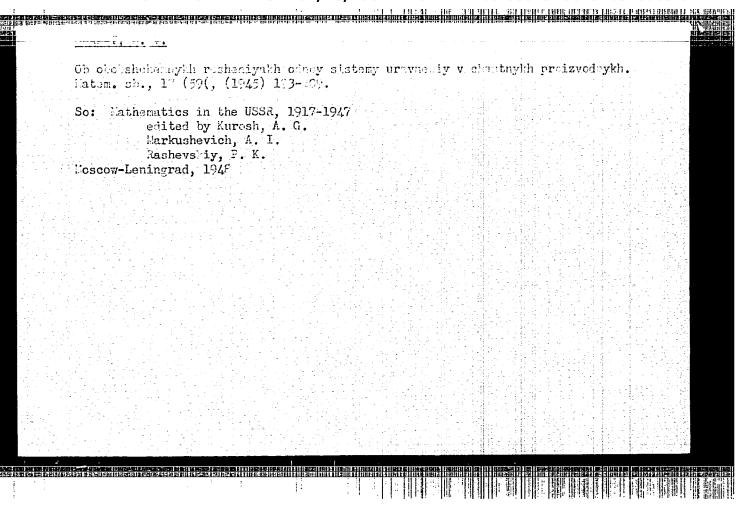
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theory of waves "in the lar the complex theory of unster	oblems of the theory of waves, s an unity in the case of flow pas ge," of the theory of three-dime ady waves, for example, periodic ere is still no rigorous method.	t an obstacle, of the majoral flows, and of (standing) and Cauchy-
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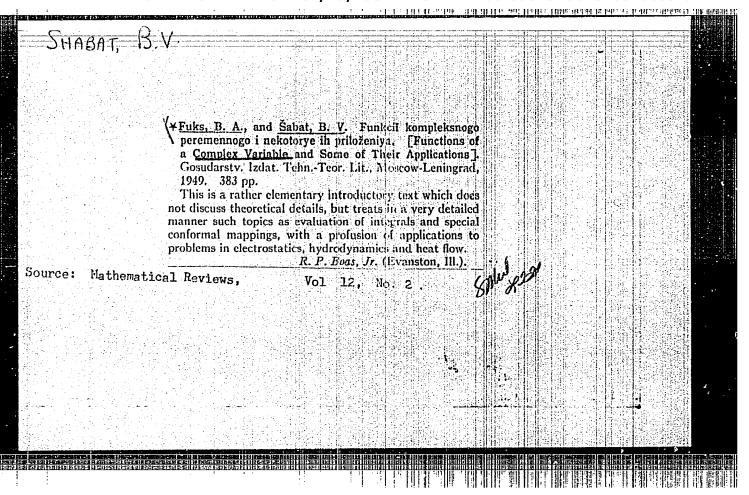


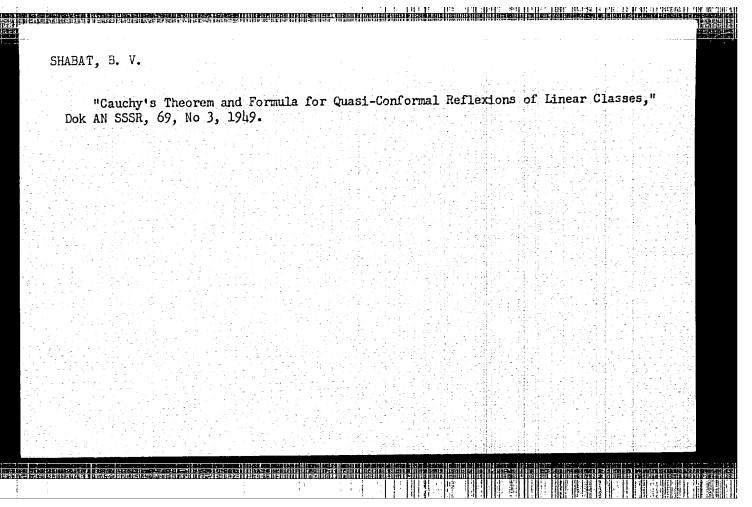
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"A model of incompressible flow with separation."								
report present Mechanics, Mos	ed at the 2nd cow, 29 Jan -	All-Union 5 Feb 64.	Congress	on Theoretical	L and Applied			









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Call No.: AF 497335

BOOK

Authors: LAVRENT'YEV, M. A. and SHABAT, B. V.

Full Title: METHODS OF THE THEORY OF FUNCTIONS OF A COMPLEX VARIABLE Transliterated Title: Metody teorii funktsiy kompleksnogo peremennogo

PUBLISHING DATA

Originating Agency: None

Publishing House: State Publishing House of Technical and Theoretical Literature
Date: 1951

No. pp.: 606

No. of copies: 10,000

Editorial Staff

Editors: Academician M. V. Keldysh, and Yu. K. Solntsev

Contributors: A. V. Bitsadze and I. G. Aramovich

PURPOSE: Approved by the Ministry of Higher Education of the USSR as a textbook for students in engineering, mechanico-mathematical and physico-mathematical departments of state universities who have sufficient mathematical knowledge.

TEXT DATA

Coverage: In the preface, the authors state that the existing full courses of the theory of functions of a complex variable either presuppose readers specializing in mathematics and are difficult for non-mathematicians, or present only the elements of the theory. Their book, they say, treats the subject mainly in its practical application to physical and technical problems. The reader is expected to be versed in the fundamental course of mathematical analysis, e.g., the first two volumes of V. I. Smirnov's Kurs vysshey matematiki (1949), and G. M. Fikhtengol'ts'

SHABAT, B. V.

USSR /Mathematics - Quasiconformal

1 Aug 53

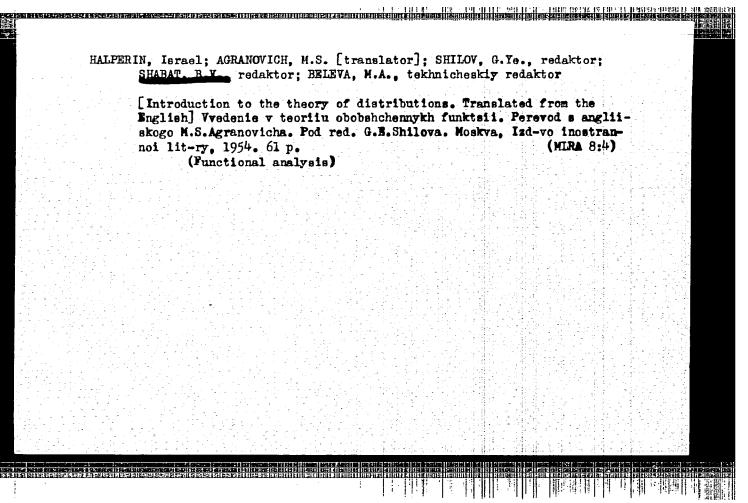
"Behavior of Quasiconformal Representation at an Isolated Point," P. P. Belinskiy

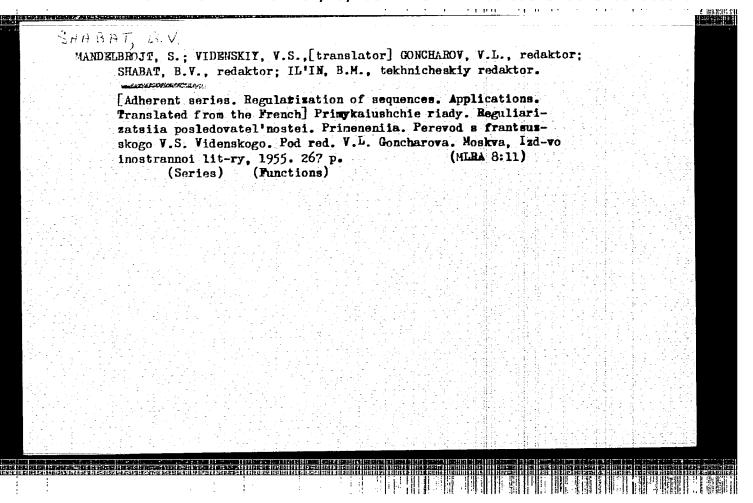
DAN SSSR, Vol 91, No 4, pp 709-710

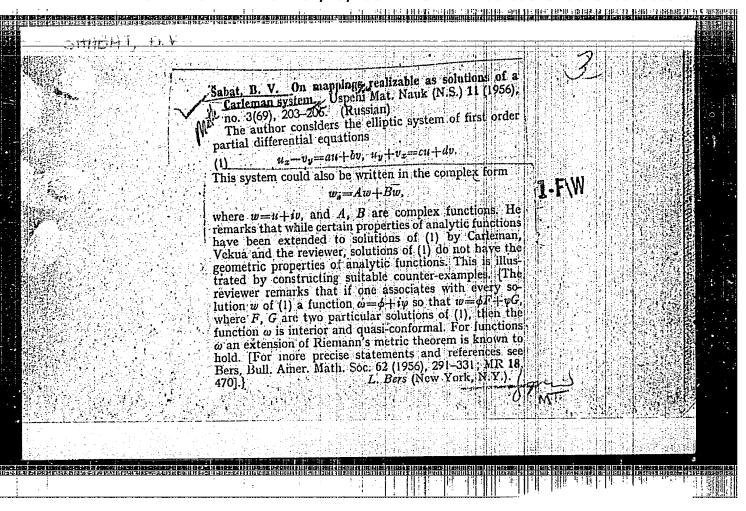
Presents a theorem which is an essential improvement over the Wittich-Teichmueller theorem (Math Z. 51:6, 278 (1949)) and which generalizes the results of B. V. Shabat (Matem Sbornik, 17(59):2, 193 (1946)) on the differentiability of a quasiconformal reflection to the case of the fulfilment of the Helder integral condition. Namely, proves the following theorem: If

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 $p(z)-1\cdot/z/^{-2}ds_z$ is finite over the interval $0</z/\le 1$, where ds_z is an element of area in the z-plane, then there exists a limit $w=w_0$ $(z\to 0)$ and the function w=f(z) is monogenic at point z_0 . Presented by Acad M. A. Lavrent'yev 23 May 53.







SHABAT, B.V.

USSR/MATHEMATICS/Theory of functions

PG - 522 CARD 1/2

SUBJECT AUTHOR

On an analogue of the Riemannian theorem for systems of linear

hyperbolic differential equations. TITLE

PERIODICAL

Uspechi mat. Nauk 11, 5, 101-105 (1956)

reviewed 1/1957

Let be given the linear hyperbolic system

The author formulates some assertions on the existence and uniqueness of schlicht mappings which are defined by solutions of (1). The author treats in detail the case of constant coefficients which, by affine transformation of the (x,y)-plane and the (u,v)-plane, can be reduced to the consideration of the system

 $u_x = v_y$, $u_y = v_x$.

If f(z) = u(x,y) + iv(x,y) is a solution of (2) with a functional determinant not vanishing in a region D, then the mapping $\mathbf{w} = \mathbf{f}(\mathbf{z})$ is called "conformal" in D. Shabat BV. 42-6-13/17 The Geemetric Sense of the Notion of Ellipticity (Geometricheskiy SHABAT, B: V. AUTHOR: smysl pomyatiya elliptichnosti) PERIODICAL: Uspekhi Matematicheskikh Nauk, 1957, Vol. 12, Nr. 6, pp. 181-188 (USSR) Writing the linear homogeneous system ABSTRACT: $v_y = au_x + bu_y, -v_x = du_x + cu_y$ (1) $\nabla v = \frac{(a+c)i+(b-d)}{2} \nabla u + \frac{(a-c)i-(b+d)}{2} \nabla u$ in the complex form with the gradients $\nabla u = u_x + iu_y$, $\nabla v = v_x + iv_y$, $\nabla u = u_x - iu_y$ etc., them the ellipticity of (1) means that ∇u and ∇v turn always to the same direction. Or: the gradients of u and v can be collinear For nonlinear systems the author gives a similar (more complicated) interpretation of the notion "elliptic", here it is a certain Finally the systems being elliptic in the sense of Petrovskiy and in the sense of Lavrent'ev are compared. Card 1/2

The Geometric Sense of the Notion of Ellipticity

42-6-13/17

Theorem: If $F_i(u_x, u_y, v_x, v_y) = 0$, i=1,2, is elliptic in the sense of Lavrent'ev and if $\frac{\partial (v_x, v_y)}{\partial (v_x, v_y)} \neq 0$, then $F_i = 0$ is

elliptic in the sense of Petrovskiy too.

Theorem: Given the system $F_i(u_x, u_y, v_x, v_y) = 0$ elliptic in the sense of Petrovskiy. Let $\frac{\partial (F_1, F_2)}{\partial (v_x, v_y)} \neq 0$, let the functional

determinant of the solutions vanish (without changing the sign) only with the partial derivatives; let the system be defined in the neighborhood of $u_x = 0$ and $u_y = 0$. Then the system is elliptic in the sense of Lavrent'ev too. Five Soviet and 1 foreign references are quoted.

SUBMITTED: October 8, 1956

AVAILABLE:

Library of Congress

Card 2/2

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SUBJECT

USSR/MATHEMATICS/Differential equations CARD 1/3 PG 845

AUTHOR SABAT B.V.

TITLE

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Examples of the solution of the Dirichlet problem for

equations of the mixed type.

PERIODICAL Doklady Akad Nauk 112 396 3

Doklady Akad. Nauk 112, 386-389 (1957) reviewed 6/1957

Let be given the equation of hyperbolic type

$$\frac{\partial^2 u}{\partial x^2} = \frac{\partial^2 u}{\partial y^2} = 0$$

and the domain D which is bounded by the line [0,1] of the x-axis and by the curve L: y = -y(x). Here let y(x) be two times differentiable and let

y(x) > 0 for 0 < x < 1; y(0) = y(1) = 0; $|y'(x)| \le 1$ (* only in isolated points).

Let be given $F_1(x)$ on [0,1] and $F_2(x)$ on L, both two times differentiable and $F_1(0) = F_2(0)$, $F_1(1) = F_2(1)$. The author seeks a two times differentiable function u(x,y) which satisfies (1) in D and assumes the values $F_1(x)$ and

Doklady Akad. Nauk 112, 386-389 (1957)

CARD 2/3

PG - 845

 $F_2(x)$ on [0,1] and L.

Theorem: This Dirichlet problem for (1) has a continuum of solutions which in general for $(x,y) \rightarrow (0,0)$ have no limit value. If there exists the limit value, then the solution is unique. Let now the equation of mixed type

(2)
$$\frac{\partial x^2}{\partial y^2} + sign y \cdot \frac{\partial^2 u}{\partial y^2} = 0$$

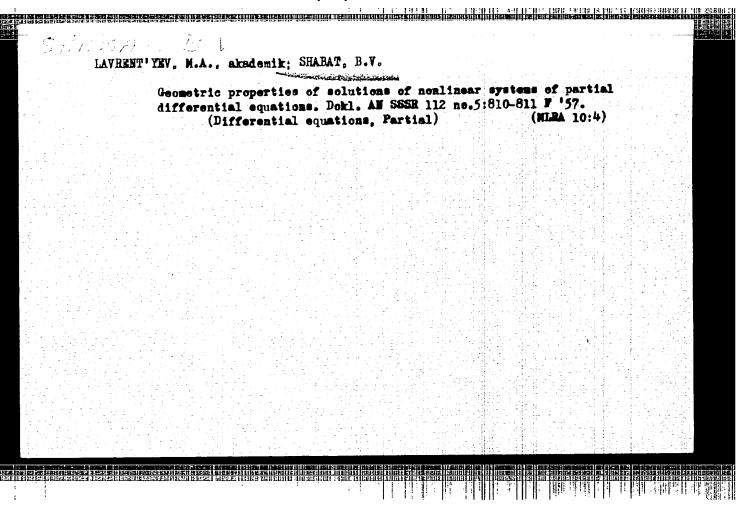
be given. Let D consist of the upper semicircle D, with the diameter [0,1] and the domain D_2 which is bounded by L (described above). (2) is elliptic in D_1 and hyperbolic in D_2 . Let the solution of (2) be a function u(x,y) which is continuous in D with its derivatives of first order and which has second derivatives for $y \neq 0$ which satisfy (2). Theorem: If L, apart from the above described condition, still satisfies the condition

$$y'(x) \le \frac{y(x)}{x-x^2+y^2(x)}$$
 $0 \le x \le 1$ (equality only in isolated points),

Doklady Akad. Nauk 112, 386-389 (1957)

then the Dirichlet problem for (1) has at most one solution in the class of functions being continuous in D.

Consider (2) in the half-plane y>-h (h>0). Boundary values are given on Consider (2) in the half-plane y>-h (h>0) and satisfy with the derivative y = -h, they are two times differentiable and satisfy with the exponent 0<1). of first order the Hölder condition in infinity (with the exponent 0<1). of first order the Hölder condition, that for x ->-\infty the derivative of every h. By the additional condition, that for x ->-\infty the derivative of the solution has a limit value, the solution becomes unique. The author considers still one further example.



16(1) PHASE I BOOK EXPLOITATION SOV/1164

Lavrent'yev, Mikhail Alekseyevich and Shabat, Boris Vladimirovich

Metody teorii funktsiy kompleksnogo peremennogo (Methods in the Theory of a Complex Variable) 2d. ed., rev. Moscow, Fizmatgiz, 1958. 678 p. 25,000 copies printed.

Ed.: Smolyanskiy, M.L.; Tech. Ed.: Gavrilov, S.S.

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PURPOSE: This book is intended for readers interested in the application to physics and engineering problems of the theory of functions of a complex variable. It can be used as a textbook by students of the physics, mechanico-mathematics and physicomathematics faculties of vtuzes and universities.

COVERAGE: The basic concepts of the theory of functions of a complex variable are given in condensed form. Only those methods of the theory of functions of a complex variable which are of great value in applications are presented. Considerable attention is given to conformal mapping and boundary value problems. Many special functions of the theory of a complex variable which are of great importance in physics and engineering are analyzed and fundamentals of operational analysis are given.

Card-1/10

given] Ipatov, [initiand N.N. Moiseyev for given at the end of e TABLE OF CONTENTS: Preface to First Edition	their heip	in prepar	iog the	book. R	M.A. 1et Eferences	vgraiov, are	
TABLE OF CONTENTS:	ach chapter.						
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Card 2/10-							

Gel fond, A.O., Leont'yev, A.F. and Shabat, B.V. SOV/42-13-6-28/33 AUTHORS:

Aleksey Ivanovich Harkushevich (on the Occasion of his 50th TITLE: Birthday) (Aleksey Ivanovich Markushevich (K pyatidesyati-

letiyu so dnya rozhdeniya))

PERIODICAL: Uspekhi matematicheskikh nauk, 1958, Vol 13, Nr 6, pp 213-220 (USSR)

Thi is a brief account of the life of A.I. Markushevich: born in ABSTRACT:

1908 at Petrozavodsk, studied till 1930 under Romanovskiy at Tashkent; aspirant under Lavrent'yev at Moscow. Canaldate dissertation on polynomial approximation of analytic functions in 1934. Since 1938 docent at the Moscow State University. Doctor dissertation in 1944 on approximations and expansions of functions in series. 1950 vice-president of the Academy of Pedagogical Sciences. 1958 first deputy of the minister of education of the RSFSR (Russian Soviet Federated Socialist Republic). His pupils are: N.A.Davydov, G.Ts.Tumarkin, S.Ya. Khavinson. There follows a list of 83 publications (1928-1957)

and a photo of Markushevich.

Card 1/1

CIA-RDP86-00513R001548510009-8" **APPROVED FOR RELEASE: 07/20/2001**

SHABAT BV

16(1)

PHASE I BOOK EXPLOITATION

SOV/2336

Fuks, Boris Abramovich, and Boris Vladimirovich Shabat

Funktsii kompleksnogo peremennogo i nekotoryye ikh prilozheniya (Functions of Complex Variables and Some of Their Applications) 2d ed. Moscow, Fizmatgiz, 1959. 376 p. (Series: Fiziko-Matematicheskaya biblioteka inzhenera) 20,000 copies printed.

Ed.: M. L. Smolyanskiy; Tech. Ed.: Ye. A. Yermakova.

PURPOSE: This book is intended for students and Aspirants of vtuses and also for engineers and scientists working on the application of mathematics to physics and mechanics.

COVERAGE: This book discusses in detail the fundamental concepts of the theory of functions of a complex variable. Among the topics covered are complex numbers, analytic functions, conformal mapping, elementary functions, and ragular functions. Various applications of the theory are also discussed, such as applications to plane vector fields, to the theory of residues, representation of functions by line integrals, etc. The book places great emphasis on practical applications of the theory, and many examples and Card 1/9

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problems are included. No personalities are mentioned. The are no references.	here
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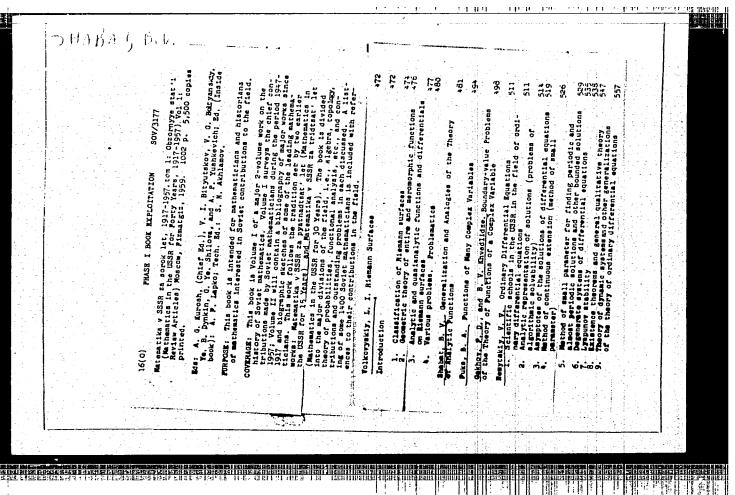
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AUTHOR:

Shabat, B.V.

The Modulus Method in Space

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The Modulus Method in Space

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g is called extremal if the volume of the domain is identical with the modulus of the considered family of curves and surfaces respectively. Theorem 3: The extremal metric is determined uniquely up to a set of the volume measure 0. Theorem 4: If two families with the moduli M_1 and M_2 lie in D_1 and D_2 , $D_1 \cap D_2 = 0$ and if there arises a third family in $D=D_1 \cup D_2$ by a union of the first-named families, then for the modulus of this union it holds

- (8) $\mathbb{M} \geqslant \mathbb{M}_1 + \mathbb{M}_2$. Theorem: Let $\{C_1\}$ and $\{C_2\}$ be situated in \mathbb{D}_1 and \mathbb{D}_2 , $\mathbb{D}_1 \cap \mathbb{D}_2 = 0$. Let every curve of $\{C\}$ consist of a C_1 and a C_2 . Then
- (9) $1/\sqrt{M\{c\}} \ge 1/\sqrt{M\{c_1\}} + 1/\sqrt{M\{c_2\}}$.

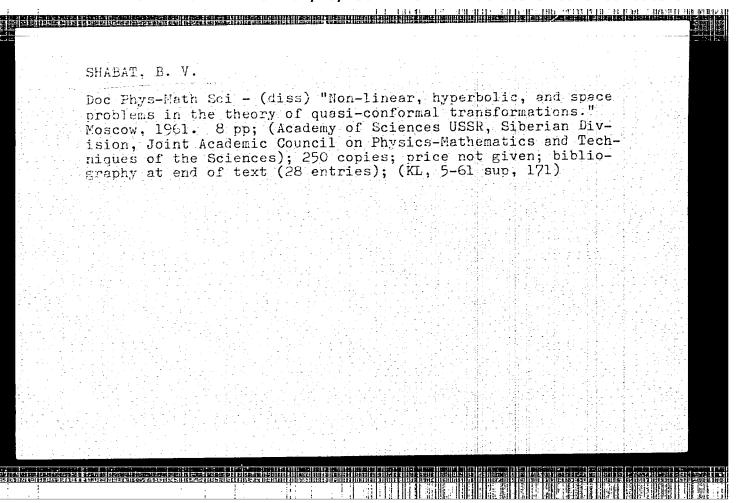
For surfaces it holds in the same case

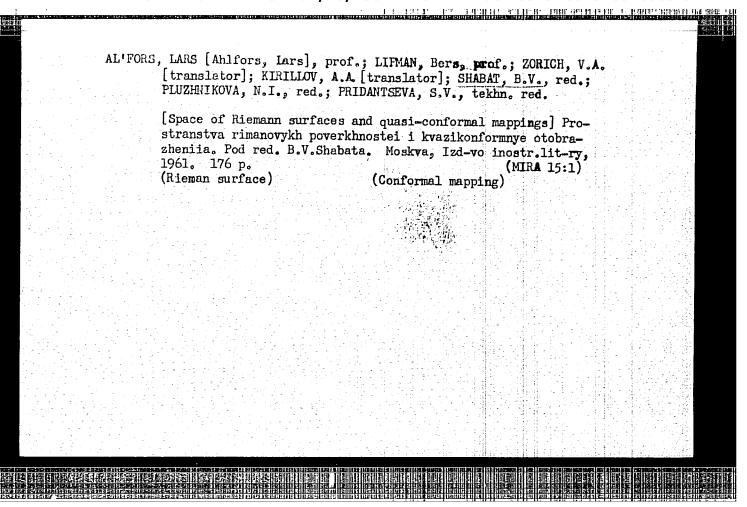
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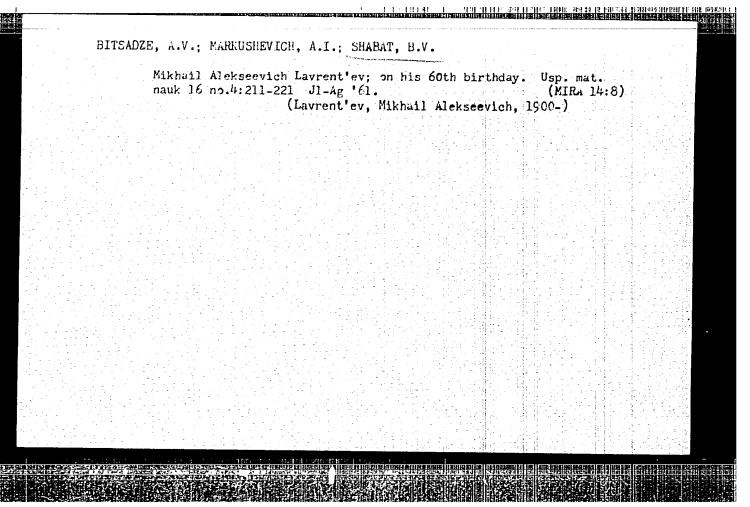
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PRESENTED:	November 5, 1959	9, by M.A. Lav	rent'yev, Ac	cademician		
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Card 3/3						

81698 \$/020/60/132/05/20/069 16.3500 AUTHOR: Shabat, B. V. TITLE: On the Theory of Quasiconformal Mappings in the Space PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 132, No. 5, TEXT: A quasiconformal mapping of a domain D in the space is defined pp, 1045-1048 to be a homeomorphic mapping $P_* = f(P)$ of this domain which possesses in every point of D continuous partial derivatives and a positive jacobian. The author shows that with the aid of the method developed by him in (Ref.1) it is possible to prove several known theorems due to M. A. Lavrent'yev and M. A. Kreynes on Q-quasiconformal mappings Theorem 3: There is no Q-quasiconformal mapping of the half space z > 0 with the cut $1 = \{x = y = 0, 0 < z \le H\}$ onto the half space $z_* > 0$ (x,y,z cartesian coordinates). There are 4 theorems The author mentions K. Andreyan-Kozaku.

Card 1/2







20629 S/020/61/136/006/005/024 C 111/ C 333 Shabat, B. V.

TITLE: On the notion of derivative system according to M. A.

Lavrent'yev

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 136, no. 6, 1961,

1298-1301

TEXT: Let the system

$$F_{i}(x,y,u,v,u_{x},u_{y},v_{x},v_{y}) = 0 \quad (i = 1,2),$$
 (1)

be given. Let z = x + iy be a point in which the functional determinant of the mapping, which is effected by the solution of (1), is different from zero. In every such point z the linear principal part of this mapping transforms the parallelogram with the base $V_{\mathcal{C}}$, height $W_{\mathcal{C}}$ and angle $\theta_{\mathcal{C}}$, which is inclined to the x-axis under the angle $\infty_{\mathbf{C}}$, into a square with side 1, the base of which forms the angle $\theta_{\mathcal{C}}$ with the u-axis. The parameters $V_{\mathbf{C}}$, $W_{\mathcal{C}}$, $\omega_{\mathcal{C}}$, $\theta_{\mathcal{C}}$ are called characteristics of the mapping. Here it holds

Card 1/5

AUTHOR:

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S/020/61/136/006/005/024 On the notion of derivative system ... C 111/ C 333

$$u_{x} = \left(\frac{\operatorname{tg}\alpha + \operatorname{tg}\theta}{V_{\beta}\operatorname{tg}\theta} + \frac{\operatorname{tg}\alpha\operatorname{tg}\beta}{W_{\beta}}\right)\cos\alpha\cos\beta, \quad u_{y} = \left(\frac{\operatorname{tg}\alpha\operatorname{tg}\theta - 1}{V_{\beta}\operatorname{tg}\theta} - \frac{\operatorname{tg}\beta}{W_{\beta}}\right)\cos\alpha\cos\beta,$$

$$v_{x} = \left(\frac{\operatorname{tg}\alpha + \operatorname{tg}\theta}{V_{\beta}\operatorname{tg}\theta}\operatorname{tg}\beta - \frac{\operatorname{tg}\alpha}{W_{\beta}}\right)\cos\alpha\cos\beta, \quad v_{y} = \left(\frac{\operatorname{tg}\alpha\operatorname{tg}\theta - 1}{V_{\beta}\operatorname{tg}\theta}\operatorname{tg}\beta + \frac{1}{W_{\beta}}\right)\cos\alpha\cos\beta.$$
(2)

If this is substituted into (1) and solved for Ψ_{β} and θ_{β} , then one obtains

$$W_{\beta} = W_{\beta} (\mathbf{x}, \mathbf{y}, \mathbf{u}, \mathbf{v}, \mathbf{v}_{\beta}, \mathbf{x}_{\beta}), \theta_{\beta} = \theta_{\beta} (\mathbf{x}, \mathbf{y}, \mathbf{u}, \mathbf{v}, \mathbf{v}_{\beta}, \mathbf{x}_{\beta}). \tag{3}$$

Let $\beta = 0$ and $V_0 = V$, $\alpha_0 = \infty$ etc. Hereby (3) is transformed into

$$W = W(x,y,u,v,\nabla,\alpha) \theta = \theta (x,y,u,v,\nabla,\alpha). \tag{4}$$

M. A. Lavrent'yev (Ref.1: Matem. sborn., 21 (63), 285 (1947)) has shown that for an arbitrary solution of (1) the magnitudes P = ln V and ∞ satisfy the system Card 2/5

On the notion of derivative system ... $\frac{20629}{5/020/61/136/006/005/024}$

$$\frac{\partial P}{\partial v} = a_1 \frac{\partial P}{\partial u} + a_2 \frac{\partial c}{\partial u} + a_3, \quad \frac{\partial c}{\partial v} = b_1 \frac{\partial P}{\partial u} + b_2 \frac{\partial c}{\partial u} + b_3, \quad (5)$$

which is denoted as the derivative system, and the coefficients of which are given by

$$a_{1} = \frac{\partial W}{\partial V} \operatorname{ctg} \theta - \frac{W}{\sin^{2} \theta} \frac{\partial \theta}{\partial V}, \quad a_{2} = \frac{1}{V} \left(\frac{\partial W}{\partial \alpha} \operatorname{ctg} \theta - \frac{W}{\sin^{2} \theta} \frac{\partial \theta}{\partial \alpha} - W \right),$$

$$b_{1} = \frac{\partial W}{\partial V}, \quad b_{2} = \frac{1}{V} \left(\frac{\partial W}{\partial \alpha} + W \operatorname{ctg} \theta \right),$$

$$a_{3} = \left(\frac{1}{V} \frac{\partial W}{\partial u} + \frac{\partial W}{\partial s} \right) \operatorname{ctg} \theta - \left(\frac{1}{V} \frac{\partial \theta}{\partial u} + \frac{\partial \theta}{\partial s} \right) \frac{W}{\sin^{2} \theta}, \quad b_{3} = \frac{1}{V} \frac{\partial W}{\partial u} + \frac{\partial W}{\partial s}$$

$$(5)$$

where $\frac{\partial}{\partial s} = \frac{\partial}{\partial x} \cos \alpha + \frac{\partial}{\partial y} \sin \alpha$.

The author gives a new proof for the following improved version of the theorem of M. A. Lavrent'yev (Ref. 1): For systems (1) for which Card 3/5

20629

On the notion of derivative system ... C 111/ C 333 the functions $W(x,y,u,v,v,\checkmark)$ and $\Theta(x,y,u,v,v,\checkmark)$ from (4) are continuously differentiable in a certain domain (except the systems for which it holds

$$\frac{\partial w_{\beta}}{\partial v_{\beta}} = \frac{v^2 \partial w}{v_{\beta}^2 \partial v}$$
 (7)

the positivity of the derivative $\Im W_{ij}/\Im V_{ij}$, for every $(3, 0 < \beta < 27T$, is equivalent to the ellipticity of the derivative system (5) in classical sense and to the condition $b_1 = \Im W/\Im V > 0$.

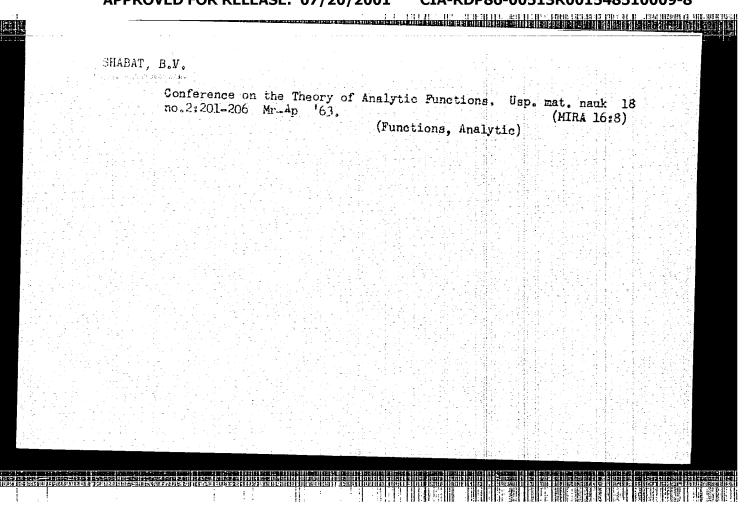
By an example the author shows that the exceptional case mentioned in the theorem can really occur.

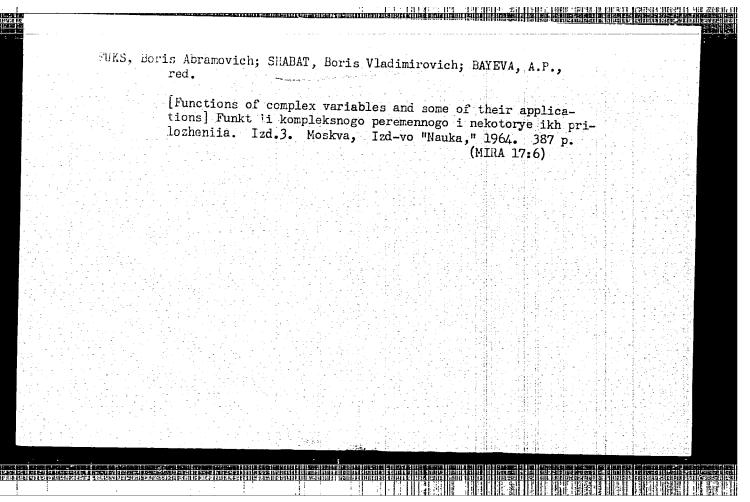
Furthermore the author proves:

Theorem: Assume that the system (1) contains explicitly no coordinates. The right sides of the equations (4) are assumed to be twice continuously differentiable in the entire open

Card 4/5

 $\frac{1}{V}$ e^{-i \propto} plane (so-called hodograph plane).

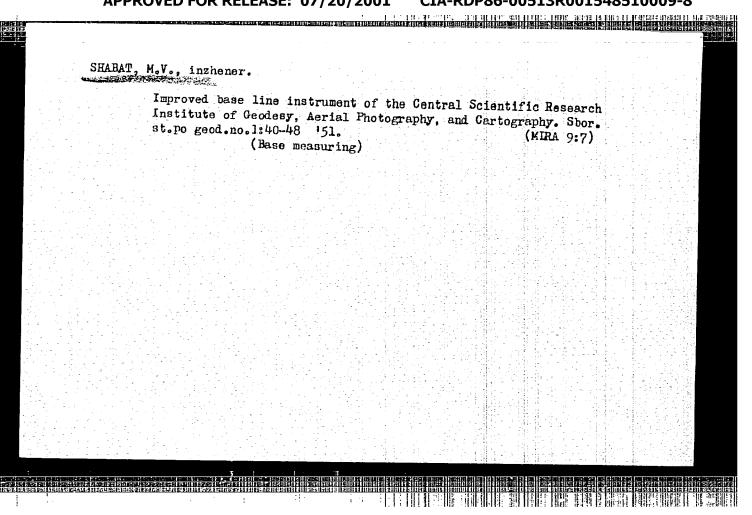


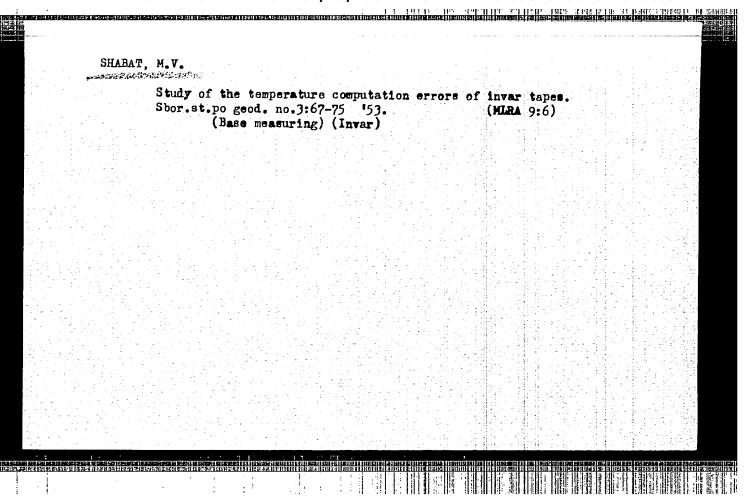


LAVRENT'YEV, Mikhail Alekseyevich; SHABAT, Boris Vladimirovich;
SMOIYANSKIY, M.L., red.

[Methods in the theory of functions of complex variables]
Metody teorii funktsii kompleksnogo peremennogo. Izd.3.,
ispr. Moskva, Nauka, 1965. 716 p. (MIRA 18:6)

Obligations have been fulfilled. Kons. i ov. prom. 16 no.11:4 M '61.	SHARAT,						
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h(4) APTHOR:

Shabat, M. V.

501/6-59-9-4/19

TITLE:

Duplicate Measurement of the Basis of Nesvetay

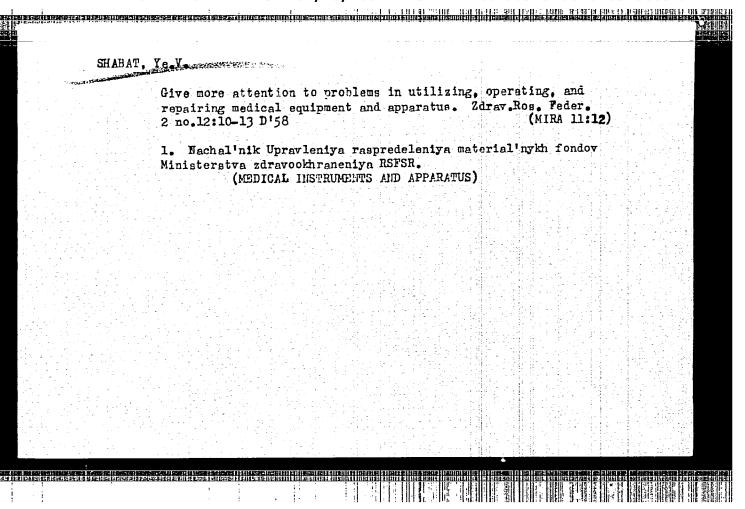
PERIODICAL:

Geodeziya i kartografiya, 1959, Nr 9, pp 23-25 (USSR)

ABSTRACT:

Nesvetay lst' order base (near the town of Rostov) was surveyed for the first time in 1948, and for the second time in 1955 by the collaborators of the Meteorologicheskaya laboratoriya TsNIIGAik (Meteorological Laboratory of the TsNIIGAik). 7 invar wires, a theodolite TN-40, a dumpy level of Zeiss, 3 centering devices of the Malyshev-system, and an invar band 6 meters long, were used in 1955. The repair of the invar wires is pointed out here. The survey was made from the end of August to the beginning of September 1955 in clear hot weather. The execution of the survey is pointed out in brief, and the results are shown in the table. The second survey showed that the measurement of the hase was made with high accuracy both in 1948 and 1955. The investigations revealed that it is more convenient to wind up the invar wires on invar drums than on aluminum drums. There are 3 tables.

Card 1/1



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and a second second the party of the second Chabate, B. Sur les solutions généralisées des systèmes elliptiques linéaires. Rec. Math. [Mat. Sbornik] N.S. Cela étant, l'auteur construit une formule de Green pour 17(59), 193-210 (1945). (Russian. French summary) exprimer u et v; co mode de représentation des inconnues TMF 166687 lui permet de relier les propriétés de continuité de u et v à celles des d.(s). En utilisant et en adaptant convenablement les raisonnements de E. Hopf [Math. Z. 34, 194-233 Envisageons le système elliptique d'équations aux dérivées partielles: (1931)], l'auteur parvient à l'énoncé suivant: si les a(s) $a_1u_x + a_2u_y - v_y = 0$, $a_1u_x + a_1u_y - v_x = 0$, admettent dans D des dérivées partielles d'ordre m, vérifiant $a_1a_4-(a_2+a_3)^2/4>0$. L'auteur étudic les couples de foncdans D une condition de Hölder d'expo ant à les dérivées tions u(z) et v(z), définies dans le domaine simple D du partielles d'ordre mul-1 de toute solution u, p de (1) existent et vérifient une condition de Hölder d'exposant & plan z=x+iy et qui y possèdent les propriétés suivantes. (1) Les fonctions u et v possèdent presque partout une L'auteur définit ensuite une classe de correspondances différentielle totale au sens de Stolz et vérifie it presque quasi-conformes w=u+iv, genéralisant celle de M. Lavrentieff [même Rec. 42, 407-423 (1937)]; il vérifie que les fonctions u et v sont alors solutions de (1); la réciproque est partout (1). (2) Les dérivées partielles de premier ordre de u et v sont de carré sommable. (3) Soient les segments x=x0 ou $y=y_0$ intérieurs à D; sauf pour un ensemble dénombrable vraie. On indique enfin quelques propriétés fonctionnelles de ces segments, f(z) = u + iv transforme tout ensemble parde ces correspondances: limitation des coefficients de déforfait, de mesure linéaire nulle, situé sur un tel segment, en un mations, critère de compacifé des dérivées partielles de u et v. ensemble de mesure nulle. (4) La représentation w=f(z)J. Kravichenko (Grenoble). sur le plan w est continue, ouverte, ne transformant pas un continu distinct d'un point en un point. Vol 8. No. 2 Source: Mathematical Reviews,

VASIL'YEV, V.G.; MERZLEERO, Yu.F.; MATSKEVICH, M.M.; ZHIVAGO, N.V.;
LI CHZHAO-ZHEN' [Li Chao-Jên]; GOLYAKOV, V.A.; SHAEATIN, I.V.;
BORISENKO, Ye.M.; MIROSHNIKOV, M.V.; USPENSKAYA, N.Yu.;
KHEL'KVIST, V.G.; GRATSIANOVA, O.P.; BUDNIHOV, N.B.; BELOV, K.A.;
MAKSIMOV, S.P.

Discussion. Trudy VNIGNI no.32:282-336 60.

(MIRA 14:7)

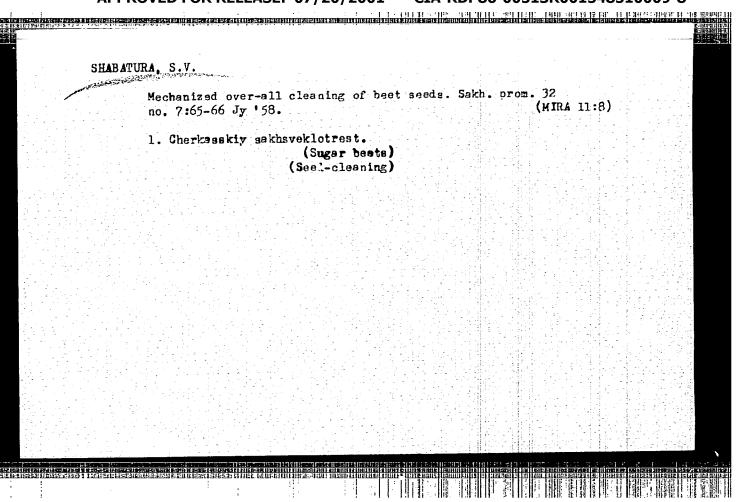
1. Vsesoyuznyy nauchno-issledovatel'skiy institut prirodnogo gaza (for Vasil'yev, Zhivago, Khel'kvist). 2. Neftepromyslo-voye upravleniye Stavropol'neft' (for Marzlenko). 3. Groznenskiy nauchnoissledovatel'skiy neftyanoy institut (for Matskevich).

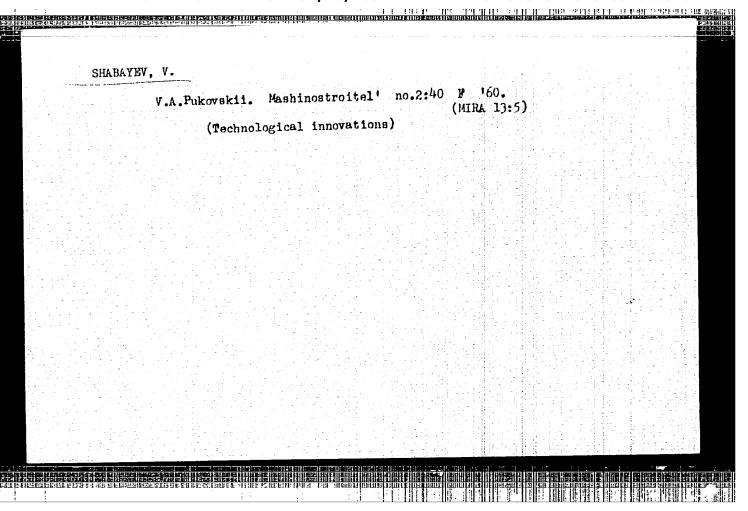
4. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti im. I.M. Gubkina (for Li Chzhao-zhen', Uspenskaya). 5. Stavropol'skiy filial Groznenskogo nauchnoissledovatel'skogo neftyanogo instituta (for Golyakov, Shabatin, Borisenko, Miroshnikov).

6. Ministerstvo geologii i okhrany nedr SSSR (for Gratsianova, Budnikov). 7. Glavnyy geolog neftyanogo i gazovogo upravleniya Stavropol'skogo sovnarkhoza (for Belov).

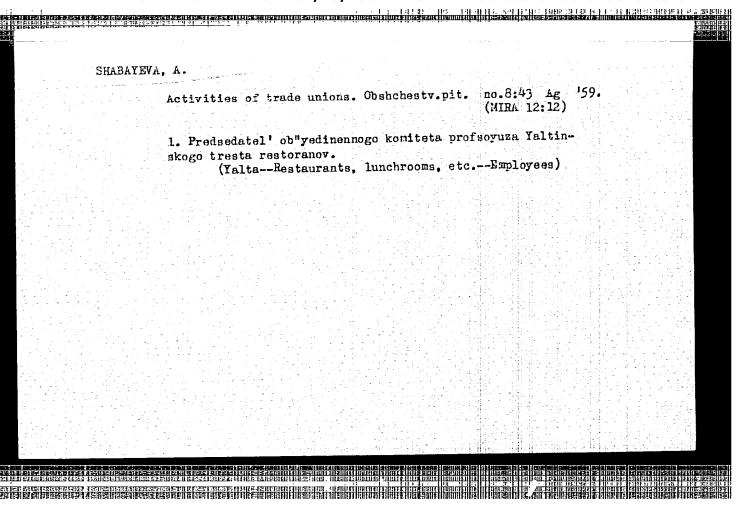
(Caucasus, Northern-Petroleum geology) (Caucasus, Northern-Gas, Nitural-Geology)

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Radio-network workers help Radio, No. 9, 1952	radio amateurs.			
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9. Monthly List of Russian	Accessions, Libra	ary of Congress,	December 1952.	UNCLASSIFIED.
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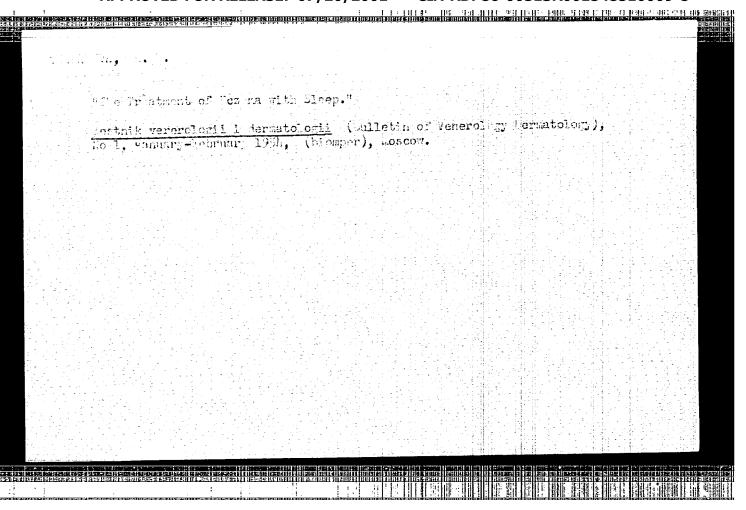




Kasya	CHODZHAYEV, S.; SIDOROV, K., starshiy instruktor; SHABAYEV, V.
	Inspection of red corners is in progress. Sov. profsoiuzy 18 no. (MIRA 15:6)
	1. Zaveduyushchiy kul'turno-massovym otdelo debekskogo respublikanskogo soveta profsoyuzov, g. Tashkent (for Kasymkhodzhayev). 2. Gor'kovskiy oblastnoy sovet professional'nykh soyuzov (for Sidorov). 3. Rostovskiy zavod sel'skokhozyaystvennogo mashinostroyeniya (for Shabayev) (Community centers)
	이 보다 생일 문의 회사 보다 보고 있는 것 같아 그들은 그를 가는 것을 다 하는 것이 없는 것이 없었다.
	사진은 그는 이 역 마음을 입니다. 물리를 하면 없었다. 그는 그렇게 얼마를 하는 것이 모든 것이다.
	보다를 하지만 하게 인물 시민도 하고 있는 다음은 사람들이 불빛을 모았다. 그는 사람들이 보다 모양했다.
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	이 전에 마르는 것이 되는 모든 사람들은 것이 되고 있다. 이 전에 가족되는 것이 되는 생각이 되었다. 그런 그런 사람들이 되었다. 그는 것이 되었다. 그런데 하는 사람들이 되는 것이 되는 것이 되었다. 그는 것이 되었다. 그런데 그렇게 되었다. 그런데 그렇게 되었다. 그런데 되었다. 그런데 되었다. 그런데 되었다.
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	는데, 보다는 전에 가는 나는 사람들이 그렇게 그를 보고 하는 그들은 물건을 받았다.
	연구 보는 말을 하는 것이 모든 문의 하는 모든 만에 살려놓아 풀게 모든 말을 통하를 하는 말했다.
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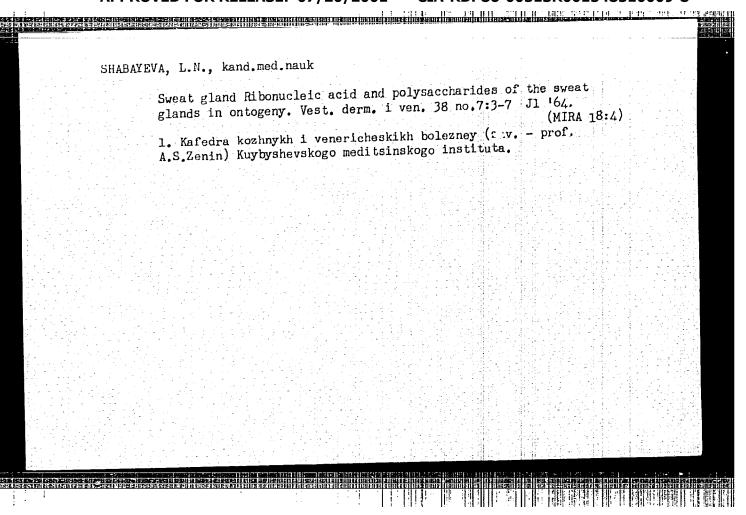
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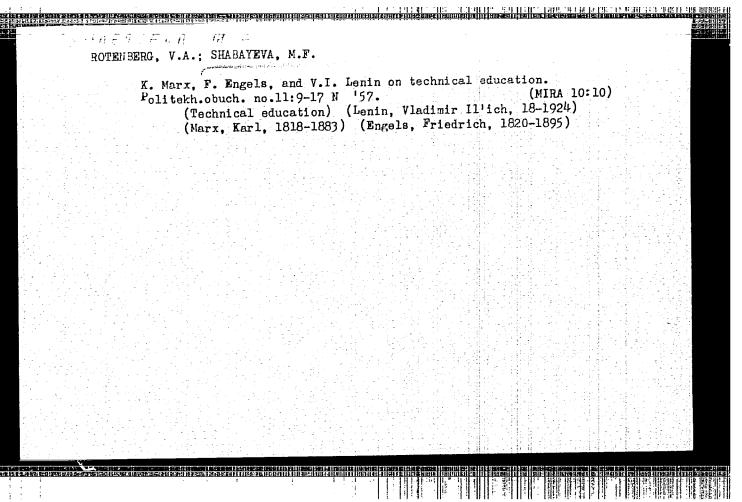
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1. Iz kafedry kozhno-venericheskikh bolezne Zenin) Kuybyshevskogo meditsinskogo institu (ECZEMA) (NERVOUS SYSTEM, AUTO	- prof. A. D.	A. S. Voronov)	
기를 보고 있는데 보고 있는데 이번 전에 되었다. 그 사람들은 말로 들고 있었다. 기를 받는데 하는데 그는 그는 그는 것이 되었다. 그는 그는 그 것이 없는데 없었다.			
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SHABAYEVA, Mariya Fedorovna Name: Dissertation: The School and teachers of Russia in the first quarter of the 19th century (from the beginning of the century to the uprising of the Decembrists) Doc Ped Sci Degree: [not indicated] Affiliation: 5 Jul 55, Council of Sci Res Inst of Theory and History of Pedagogy, Acad Ped Sci RSFSR Defense Date, Place: 16 Nov 57 Certification Date: BMVO 24/57 Source: 8

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사는 사용인에는 사용적으로 직접 인상을 보는 사용으로 가득 경기를 받아 있다면 하는 일상을 보고보니 생활하는 사용 분이 되었다. 특별한 결국 모양이 취급
는 사용한 경험 경험 전에 있는 것들이 들었다. 사용한 경험 전쟁 기업 한 경험 경험을 표를 보고 함께 보고 말했다. 당한 전쟁 전쟁 기업 경험 교육을 가게 하시는 물건 생활한 경험 전쟁 전쟁 기업



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3-58-2-25/33 A Conference of Instructors in Pedagogics and Psychology and A.I. Golubev reported on the organization of polytechnical education in the Tatar and Mordvinian Autonomous Republics. Candidate of Pedagogical Sciences B.P. Rozhdestvenskiy and G.A. Petrova spoke of the organization of aesthetic education in the schools of the Tatar Autonomous Republic; Candidate of Pedagogical Sciences A.A. Vanshteyn discussed the mutual relation between theory and practice in teaching pedagogics. The Kazan' conference decided to establish a permanent organizational bureau for preparing and conducting conferences. ASSOCIATION: Kazanskiy pedagogicheskiy institut (Kazan' Pedagogical Institute); Kazanskiy gosudarstvennyy universitet imeni V.I.Ul'yanova (Lenina) (Kazan' State University im.V.I.Ul'yanov (Lenin)) Library of Congress AVAILABLE: Card 2/2

20-114-3-49/60 Gorbunova, L. I., Shabayeva, Ye. A. AUTHORS: Montmorilonite Clays From Deposits of a Carboniferous Layer of the Lower Carboniferous in Tataria. (Montmorillonitovyye TITLE: gliny iz otlozheniy uglenosnogo gorizonta nizhnego karbona Tatarii) Doklady Akademii Nauk SSSR, 1957, Vol 114, Nr 3, pp 631-633(USSR) PERIODICAL: In the course of nicroscopic investigations of the Devonian and ABSTRACT: Carboniferous deposits of some districts of Baku II, the authors of the paper under review studied, inter alia, the mineralogical composition of the Lower Carboniferous clays from oil area of Tataria : interval 996-1016 m the Romashkinskoye . These are alcuritic clay units. of the Al'est'rev shaft. Coarsely pelitic fraction is predominant (38.9 - 85.1%). Precolloidal fraction (9.17 - 38. 1 %) plays a subordinate part. Colloidal fraction (5.6 - 12.1 %) is represented to an even lesser degree. From the point of view of their chemical composition, the fractions 0.001 - 0,0002 mm are related to the montmorilonite clays. Also the X-ray analyses of the fractions below 0.0002 mm point to this group of minerals. The Card 1/2

20-114-3-49/60

Montmorilonite Clays From Deposits of a Carboniferous Layer of the Lower Carboniferous in Tataria.

thermograph and the dehydration curve again are characteristic of the same group. The results of thorough investigation permit the conclusion that the rock-forming mineral is a montmorilonite-like mineral with admixture of water-mica. There exist no unambiguous results which would make it possible to attribute the mineral with certainty either to montmorilonite or to beidelite. The ratio SiO2 : Al2O3 = 4.99 : 1

is that of montmorilonite, whereas the to of the second endo-thermal reaction (565°) and the curve of adsorption are those of beidelite. To obtain more precise results, additional investigations are necessary. There are 2 figures, 2 tables and 3 references, all of which are Soviet:

ASSOCIATION: All-Union Scientific Research Institute for Geological

(Vsesoyuznyy nauchno-issledovatel'skiy Survey of Petroleum

geologorazvedochnyy neftyancy institut)

PRESENTED: SUBMITTED: November 12, 1956, by N. M. Strakhov, Member of the Academy

October 26, 1956

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CIA-RDP86-00513R001548510009-8" APPROVED FOR RELEASE: 07/20/2001

20-3-37/46 and Gorbunova, L. I. Shabayeva, Ye. A., AUTHORS:

A Case of Montmorillonite Replacement by Hydro-Mica TITLE:

in Clays of Middle Carboniferous Deposits of the Saratov Near-Volga Region (Sluchay zameshcheniya montmorillonita gidroslyudoy v glinakh srednekamennougol'nykh otlozheniy

Saratovskogo Povolzh'ya).

Doklady AN SSSR, 1957, Vol. 116, Nr 3, pp. 484-487 (USSR)

PERIODICAL: Electron microscopical photographs of fine clay fractions

of the Bashkir specimen and the Veresyk horizon have shown ABSTRACT: various stages of diagenetic replacement of a clay mineral by an other one. The initial stage of this replacement is represented in figure 1. The picture reminds externally the replacement process of clivine by serpentine, of biotite by

chlorite, etc. The said minerals were carefully identified by the authors. Clear lines of various intensity of montmorillonite and hydro-mica were detected on radiograms of the fractions < 0,001 mm. The electron microscopial investigation is not at variance with the chemical analysis. Consequently the two said minerals may be considered as

rock-forming. The electron microscope shows that hydro-mica

Card 1/3

A Case of Montmorillonite Replacement by Hydro-Mica 20-3-37/46 in Clays of Middle Carboniferous Deposits of the Saratov Near-Volga Region

was produced from montmorillonite-like mineral in course of the diagenesis. Nobody has stated this before, but it became a question that the process takes place in opposite direction. Only some suggestive remarks concerning the direction. Only some suggestive remarks concerning the former possibility were enounced. The fixed case seems to indicate that these enouncements prove right and it is in accordance with the results obtained by some authors who accordance with the results obtained by some authors who accordance with the results obtained by some authors who accordance hydro-mica by introducing potassium ions in the obtained hydro-mica by introducing potassium ions in the obtained hydro-mica by introducing potassium ions in the volga region, apparently by the interaction of the in the Volga region, apparently by the interaction of the in the Volga region, apparently by the interaction of the which at that time were absorbed by sediments from sea water. Which at that time were absorbed by references, 7 of which are Slavic.

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